

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number  
**WO 2005/088461 A1**

(51) International Patent Classification<sup>7</sup>: **G06F 12/14**,  
H04L 9/18, G06K 19/073

NG, Chee We [SG/SG]; c/o Digisafe Pte Ltd, 100 Jurong East St 21, Singapore 609602 (SG). **GATTAMENI, Venkateswara Rao** [SG/SG]; c/o Digisafe Pte Ltd, 100 Jurong East St 21, Singapore 609602 (SG).

(21) International Application Number:  
**PCT/SG2005/000084**

(74) Agent: **PETER, LO**; Shook Lin & Bok, 1 Robinson Road, #18-00, Aia Tower, Singapore 048542 (SG).

(22) International Filing Date: 17 March 2005 (17.03.2005)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

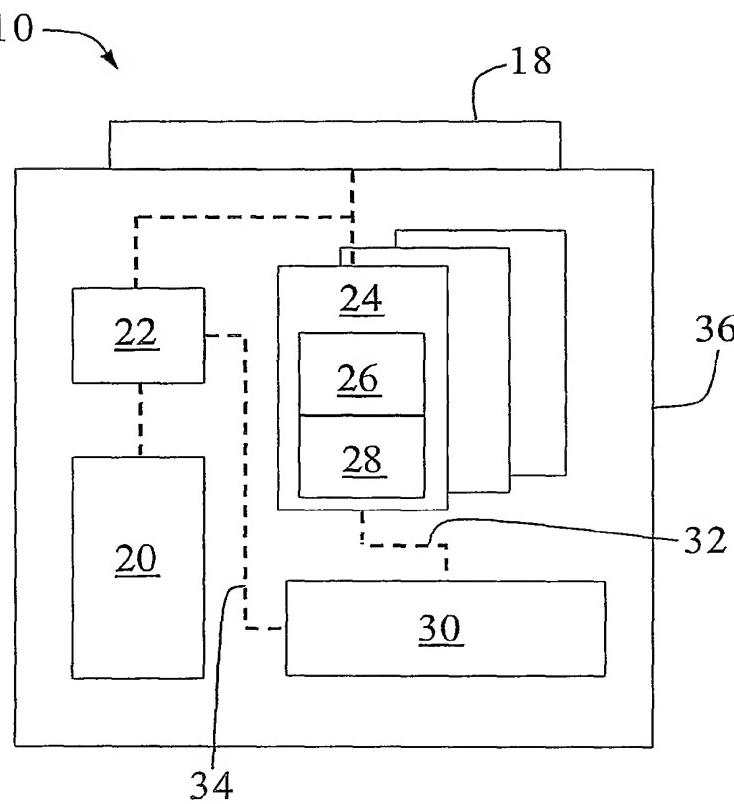
(26) Publication Language: English

(30) Priority Data:  
2004901393 17 March 2004 (17.03.2004) AU

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: METHOD AND DEVICE FOR PROTECTING DATA STORED IN A COMPUTING DEVICE



(57) Abstract: A device (10) for protecting data, comprising a first interface (18) for connection to a computing device, a second interface for connection to a data storage (20), an encryptor (22) located in-line between the first interface (18) and the second interface, a control system (30), and a memory (24). The memory (24) includes program data (26) executable on the computing device to perform user authentication, the control system (30) is configured to initially expose the memory (24) to the interface to facilitate user authentication and to expose the encryptor (22) to the interface only upon successful user authentication, and the encryptor (22) is operable to encrypt on the fly data received from the first interface (18) and to forward the data once encrypted to the second interface and to decrypt on the fly data received from the second interface and to forward the data once decrypted to the first interface (18).



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*